

# D.M.E. Omnidirectional Gain Antenna

## 960 – 1215 MHz

### 715 986, 722 394

The antenna consists of a number of identical, decoupled half-wave dipoles, phase-feeding cables and transformer. Each dipole is mounted onto a central supporting brass tube. The horizontal pattern is obtained by the circular characteristic of the single dipole, the vertical pattern varying phase and distance of the single dipoles. All metal parts are DC grounded and, therefore, widely immune to damage from lightning. The top of the antenna is fitted with a dual obstruction light (type no. 715 986). Two antenna monitor probes are located inside the fiberglass tube. All feedlines and monitor cables descend inside the supporting brass tube.

Type No.	715 986	722 394
Obstruction light	Yes	No
Input (antenna/monitors)	N female	
Connector position	Bottom	
Frequency range	960 – 1215 MHz	
Bandwidth	255 MHz	
VSWR	< 1.8 (antenna input)	
Gain	9 ± 0.5 dBi	
Impedance	50 Ω	
Horizontal pattern	Omnidirectional: deviation from omni better ± 1.5 dB	
Vertical pattern up tilt	3 ± 0.5°	
Coupling attention	25 ± 3 dB (antenna/monitor probes)	
R. F. peak power	10 kW, modulated as per ICAO recommendation	
Polarization	Vertical	
Temperature range	-40° to + 60° ambient	
Weight	28 kg	21 kg
Wind load	400 N	270 N
Max. wind velocity	150 km/h	200 km/h
Radome diameter	(incl. 12 mm radial ice) 86 mm	

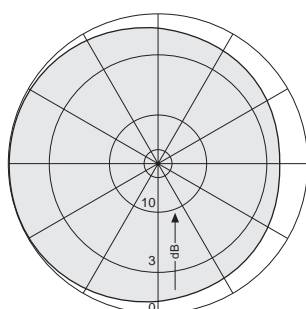
**Material:** Dipoles, decoupling elements, supporting tube and transformer: High quality brass.  
Base: Weather-resistant aluminum.  
Radome: Fiberglass, colour: Grey.  
All screws and nuts: Stainless steel.

**Mounting:** To pipes of 60 – 62 mm OD by means of mounting clamps, supplied.

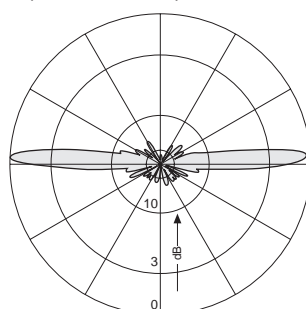
**Grounding:** The antenna is DC grounded by a cross section of 98 mm<sup>2</sup> brass.



#### Radiation Pattern (at mid-band)



Horizontal Pattern

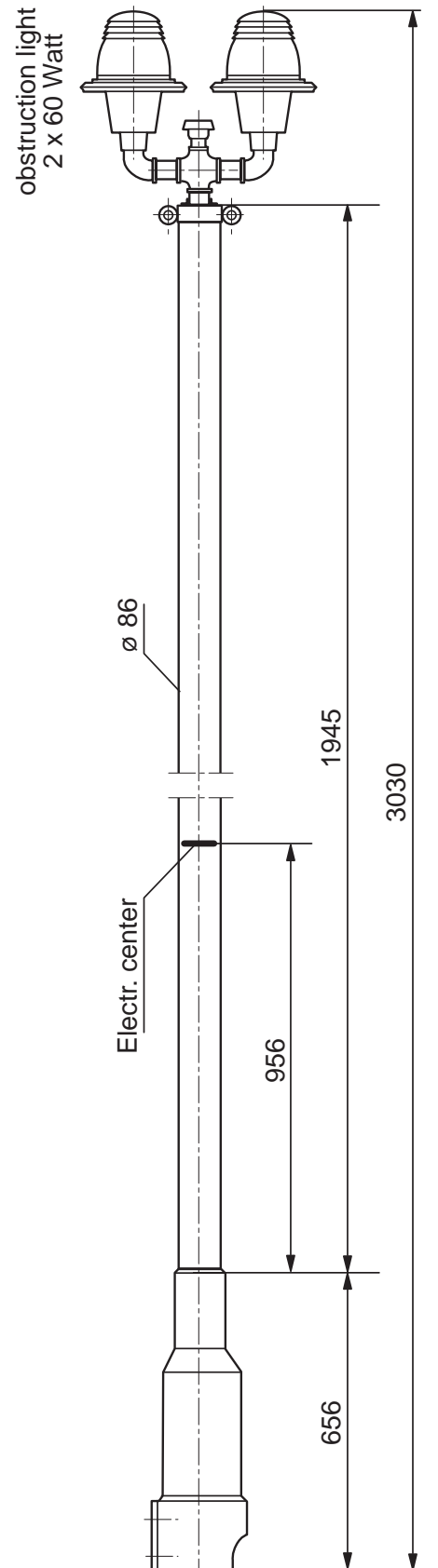
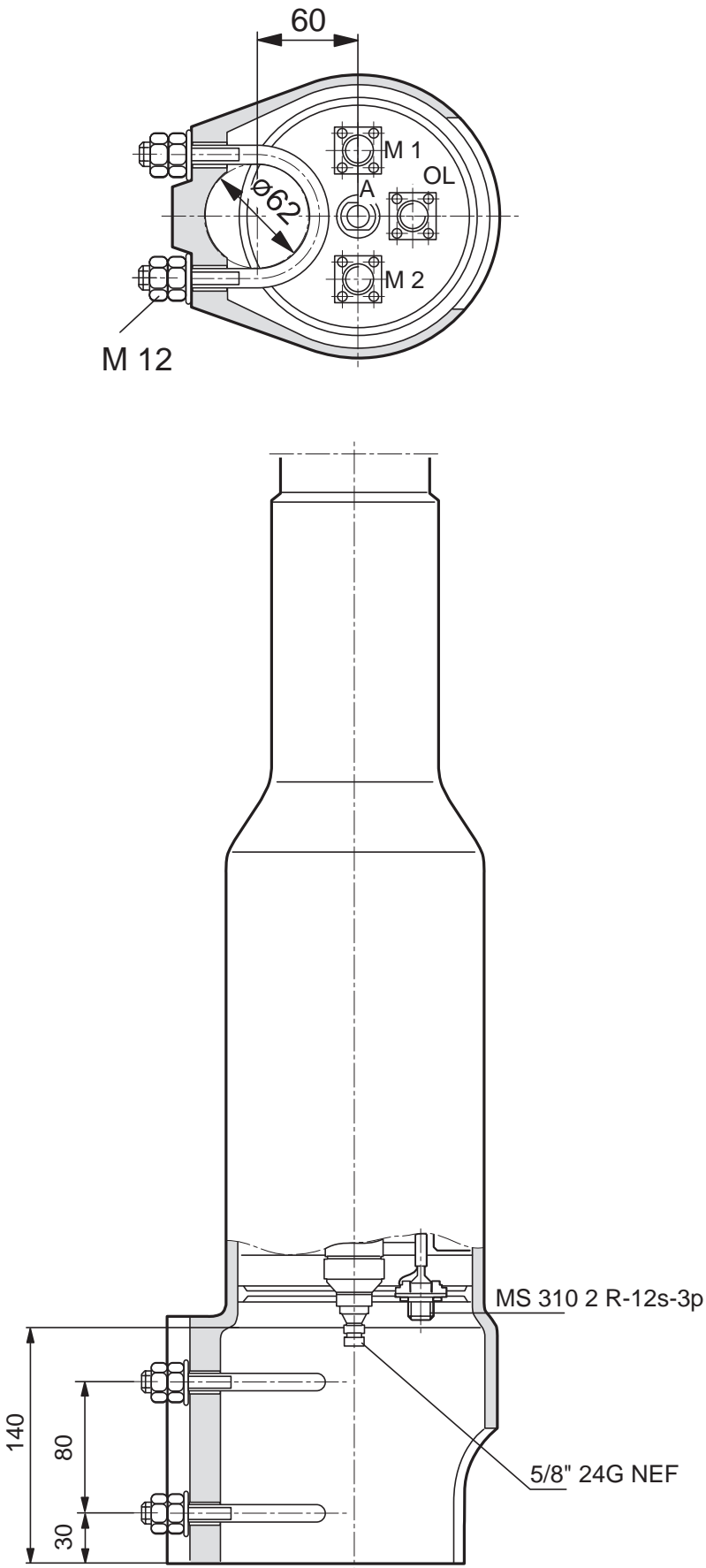


Vertical Pattern

# Mounting Instruction

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9985.607/1098/0.5/ZW/HA Subject to alteration.